

US-PAT-NO: 5225782

DOCUMENT-IDENTIFIER: US 5225782 A

TITLE: Eddy current free MRI magnet with
integrated gradient coils

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Brief Summary Text - BSTX (12):

In certain preferred embodiments, the first shield means is a thermal shield having inner and outer fiberglass shells connected by fiberglass end plates and including segmented, electrically insulated strips of copper, aluminum or other materials with high thermal conductivity. Also, the support means includes axial straps and radial thin wall tubes which support the magnet cartridge and thermal shield, respectively. The enclosure means includes a magnetic shield comprised of a axially segmented cylindrical shell, a fiberglass shell, spacers and end plates. Finally, the magnet cartridge means is layered with segmented copper strips to provide axial heat conduction and to assist in reducing eddy currents.